

1.3 Technical data

1.3.1 Lifting capacity

acc. to FEM - group 3 -

Max. working radius in m	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	Max. working radius in m	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆
	46.0	57.6	69.2	73.8	76.2	80.8		46.0	57.6	69.2	73.8	76.2	80.8
Holst rope	2-fall (single trolley 20.0 t)						Holst rope	2-fall (single trolley 20.0 t)					
Working radius in m	Permissible safe working load in t						Working radius in m	Permissible safe working load in t					
3	20.00	20.00	20.00	20.00	20.00	20.00	58			12.87	11.98	11.58	10.42
4	20.00	20.00	20.00	20.00	20.00	20.00	59			12.62	11.70	11.35	10.21
↓							60			12.38	11.47	11.13	10.01
32						20.00	61			12.15	11.25	10.92	9.82
33						19.84	62			11.92	11.04	10.72	9.63
34						19.18	63			11.71	10.84	10.52	9.45
35					20.00	18.57	64			11.50	10.64	10.33	9.28
36				20.00	19.89	17.99	65			11.29	10.45	10.14	9.11
37				19.84	19.29	17.44	66			11.09	10.27	9.96	8.95
38				19.26	18.72	16.93	67			10.90	10.09	9.79	8.79
39			20.00	18.71	18.18	16.44	68			10.72	9.91	9.62	8.63
40			19.57	18.18	17.67	15.97	69			10.54	9.75	9.45	8.48
41			19.83	17.69	17.19	15.53	69.2			10.50	-	-	-
42			18.59	17.21	16.73	15.11	70				9.58	9.29	8.34
43			18.05	16.76	16.29	14.71	71				9.42	9.14	8.20
44			17.59	16.34	15.87	14.33	72				9.27	8.99	8.06
45		20.00	17.15	15.93	15.48	13.97	73				9.12	8.84	7.93
46	20.00	19.79	16.74	15.54	15.10	13.62	73.8				9.00	-	-
47		19.32	16.34	15.16	14.73	13.29	74					8.70	7.80
48		18.88	15.95	14.81	14.38	12.99	75					8.56	7.67
49		18.45	15.59	14.46	14.05	12.67	76					8.43	7.55
50		18.04	15.24	14.14	13.73	12.38	76.2					8.48	-
51		17.65	14.90	13.82	13.42	12.10	77						7.43
52		17.27	14.58	13.52	13.13	11.83	78						7.31
53		16.91	14.26	13.23	12.85	11.58	79						7.20
54		16.56	13.96	12.95	12.57	11.33	80						7.09
55		16.22	13.68	12.68	12.31	11.09	80.8						7.00
56		15.89	13.40	12.42	12.06	10.86							
57		15.58	13.13	12.17	11.82	10.64							
57.6		15.40	-	-	-	-							

NB

Special attention should be paid to wind speed restrictions when operating the crane at over 72.55 m pivot height and with a load of over 20 t (see page 31).

Move the crane only in unladen state.

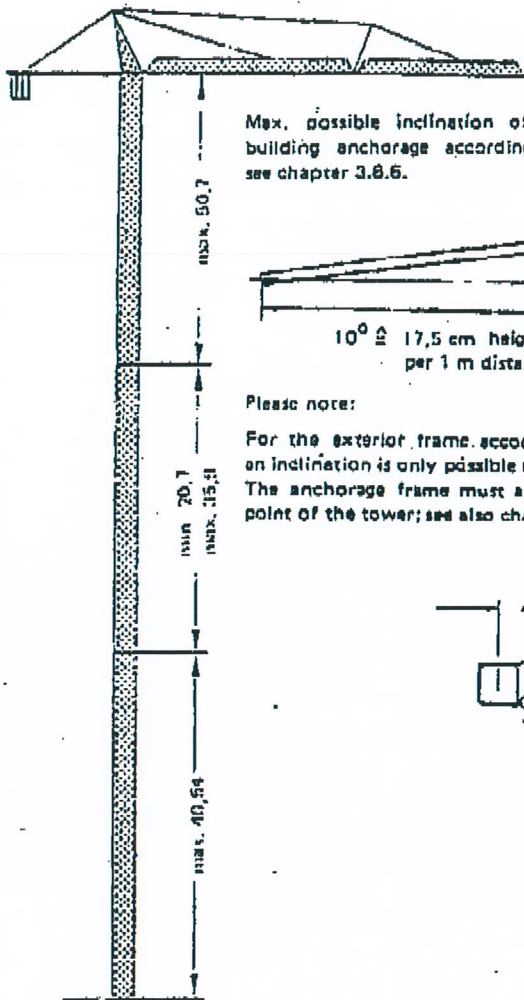
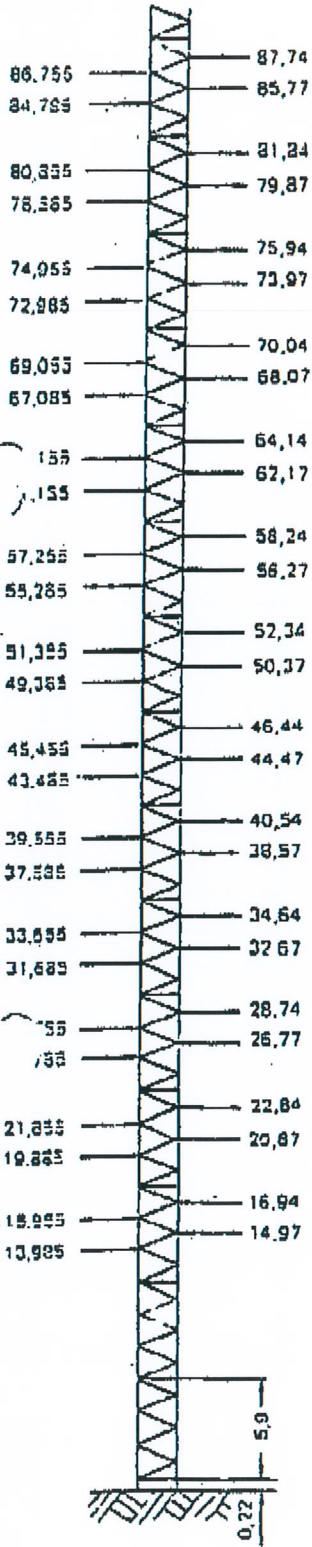
Max. working radius in m	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	Max. working radius in m	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆
	45.0	56.6	68.2	72.8	75.2	79.8		45.0	56.6	68.2	72.8	75.2	79.8
Hoist rope	4-fall (double trolley 40.0 t)						Hoist rope	4-fall (double trolley 40.0 t)					
Working radius in m	Permissible safe working load in t						Working radius in m	Permissible safe working load in t					
3	40.00	40.00	40.00	40.00	40.00	40.00	50		16.53	13.76	12.57	12.18	10.80
4	40.00	40.00	40.00	40.00	40.00	40.00	51		16.14	13.43	12.25	11.87	10.59
↓	↓	↓	↓	↓	↓	↓	52		15.76	13.10	11.95	11.58	10.32
17						40.00	53		15.40	12.79	11.66	11.38	10.06
18				40.00	40.00	37.52	54		15.05	12.49	11.38	11.03	9.81
19			↓	39.91	38.84	35.22	55		14.71	12.20	11.12	10.77	9.58
20			40.00	37.61	36.68	33.18	56		14.39	11.92	10.86	10.51	9.35
21			38.50	35.54	34.58	31.33	56.6		14.20	-	-	-	-
22		↓	38.49	33.68	32.76	29.67	57			11.66	10.61	10.27	9.12
23	↓	40.00	34.67	31.98	31.11	28.16	58			11.40	10.37	10.04	8.91
24	40.00	38.96	33.01	30.44	29.60	26.79	59			11.15	10.14	9.81	8.70
25	39.45	37.18	31.48	29.02	28.23	25.53	60			10.91	9.91	9.59	8.50
26	37.73	35.55	30.09	27.72	26.98	24.37	61			10.67	9.70	9.38	8.31
27	36.14	34.85	28.08	26.53	25.79	23.30	62			10.45	9.49	9.18	8.12
28	34.67	32.66	27.60	25.42	24.71	22.32	63			10.23	9.28	8.98	7.94
29	33.31	31.37	26.50	24.39	23.71	21.40	64			10.02	9.09	8.79	7.77
30	32.04	30.17	25.47	23.44	22.78	20.55	65			9.81	8.90	8.60	7.60
31	30.86	29.05	24.51	22.54	21.91	19.75	66			9.62	8.71	8.42	7.44
32	29.76	28.00	23.61	21.71	21.09	19.01	67			9.42	8.54	8.25	7.28
33	28.72	27.03	22.77	20.93	20.33	18.32	68			9.24	8.36	8.08	7.12
34	27.75	26.11	21.98	20.20	19.62	17.66	68.2		9.20	-	-	-	-
35	26.84	25.24	21.24	19.51	18.95	17.05	69				8.20	7.92	6.97
36	25.97	24.43	20.54	18.86	18.31	16.47	70				8.03	7.76	6.83
37	25.16	23.66	19.88	18.24	17.72	15.92	71				7.87	7.60	6.69
38	24.39	22.93	19.25	17.66	17.15	15.41	72				7.72	7.45	6.55
39	23.67	22.24	18.66	17.12	16.61	14.92	72.8				7.60	-	-
40	22.98	21.59	18.10	16.60	16.11	14.46	73					7.31	6.42
41	22.32	20.97	17.57	16.10	15.63	14.02	74					7.17	6.23
42	21.70	20.38	17.06	15.63	15.17	13.60	75					7.03	6.16
43	21.10	19.82	16.58	15.18	14.73	13.20	75.2					7.00	-
44	20.54	19.28	16.12	14.76	14.32	12.82	76						6.04
45	20.00	18.77	15.68	14.35	13.92	12.46	77						5.92
46		18.28	15.27	13.96	13.54	12.11	78						5.80
47		17.82	14.87	13.59	13.18	11.78	79						5.69
48		17.37	14.48	13.24	12.83	11.46	79.8						5.60
49		16.94	14.12	12.89	12.50	11.16							

3

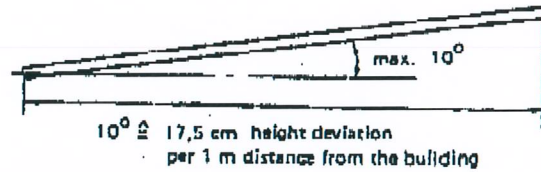
Building anchorage (Version D)

Anchoring heights at the crane

Dimensions in m

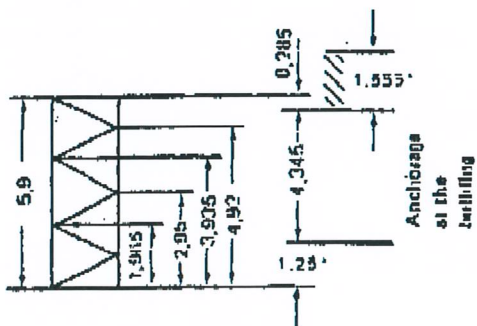
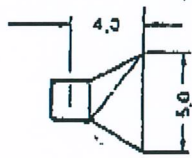


Max. possible inclination of anchorage (only for the standard building anchorage according to drawing no. 74.2851.80.00); see chapter 3.8.6.



Please note:

For the exterior frame according to drawing no. 74.2851.81.00 on inclination is only possible upon inquiry. The anchorage frame must always be attached to the assemblage point of the tower; see also chapter 3.8.7.



Please note:

For mounting the building anchorage see chapter 3.5.6.



* No anchorage possible 05-0089

4

Jib guying

Jib guying ropes

- A = 19 450 mm (Ø56)
- B = 35 130 mm (Ø48)
- C = 10 725 mm (Ø46)

Max. radius

L₁
46.0 m

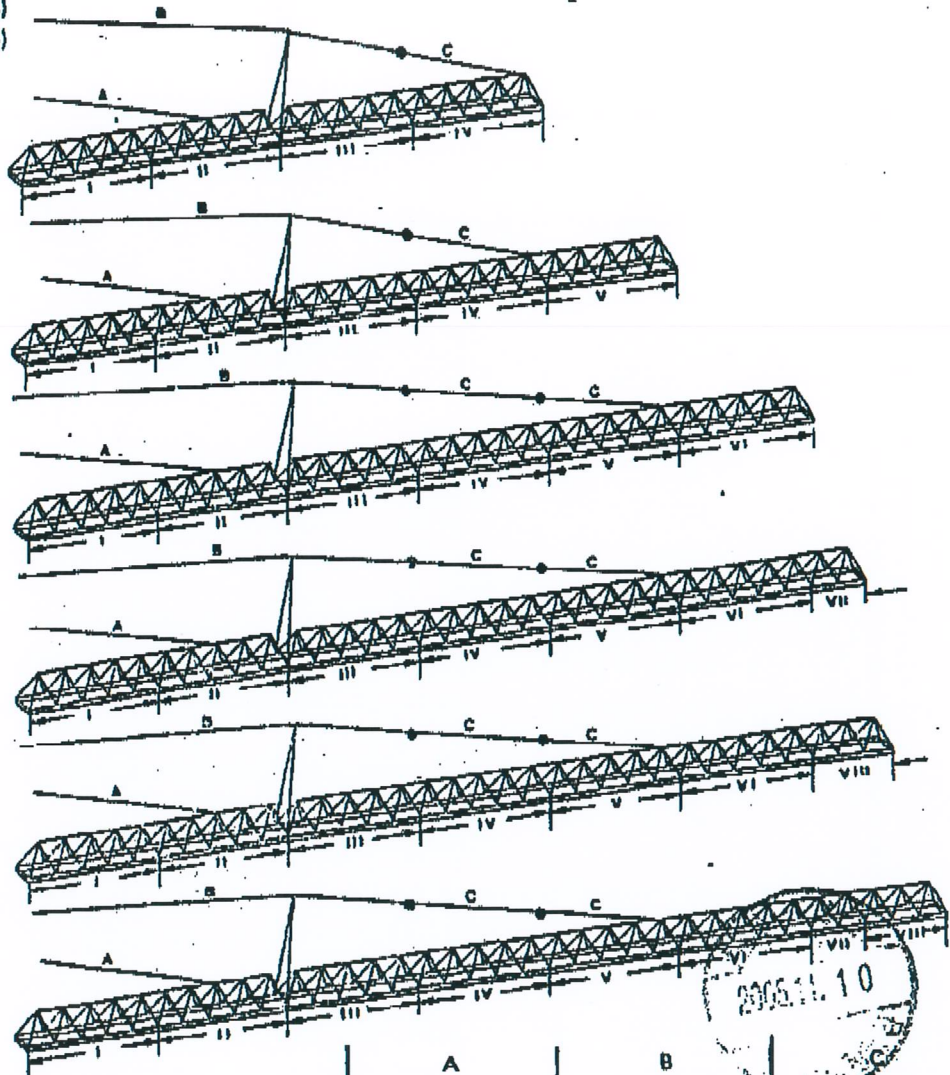
L₂
57.6 m

L₃
69.2 m

L₄
73.8 m

L₅
78.2 m

L₆
80.8 m



Max. radius 46.0 m
Rope length*

m

A
2 x 19.45

B
2 x 35.13

2 x 10.725

Max. radius 57.6 m
Rope length*

m

2 x 19.45

2 x 35.13

2 x 10.725

Max. radius 69.2 m
Rope length*

m

2 x 19.45

2 x 35.13

4 x 10.725

Max. radius 73.8 m
Rope length*

m

2 x 19.45

2 x 35.13

4 x 10.725

Max. radius 78.2 m
Rope length*

m

2 x 19.45

2 x 35.13

4 x 10.725

Max. radius 80.8 m
Rope length*

m

2 x 19.45

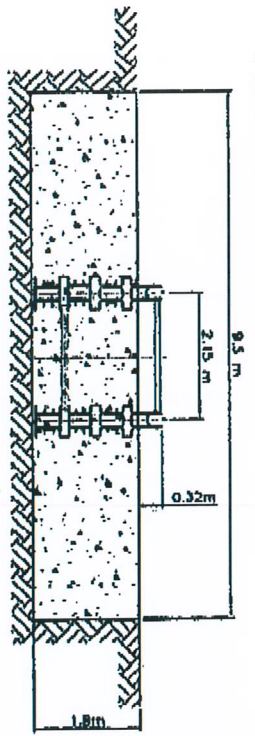
2 x 35.13

4 x 10.725

* The lengths are measured from centre of rope thimble to centre of rope thimble.

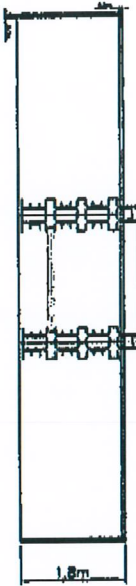
6

Concrete size



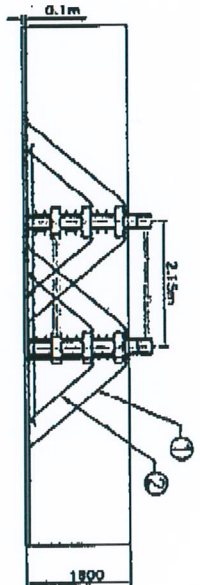
콘크리트 강도 : 240kg/cm²

top and lateral



Steel reinforcement

bottom



Hook height : 80.8m
 Foundation loads :
 Crane moment : M = 11321 KNm
 Vertical load : N = 1431 KN
 Horizontal load : H = 252.9 KN
 GROUND PRESSURE P1 = 222 KN/m²

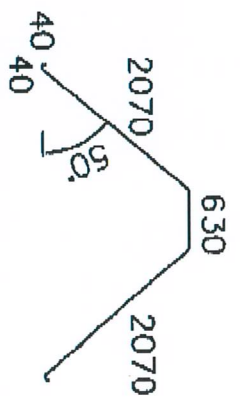
SK900

Boom Length : 80.8 m

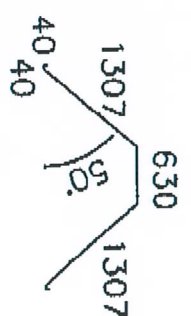
철근 : SD 40

지내력 : 24 T/m²

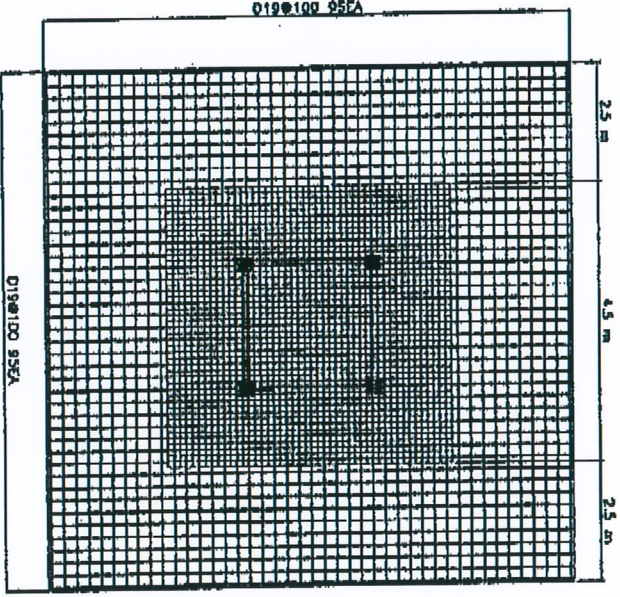
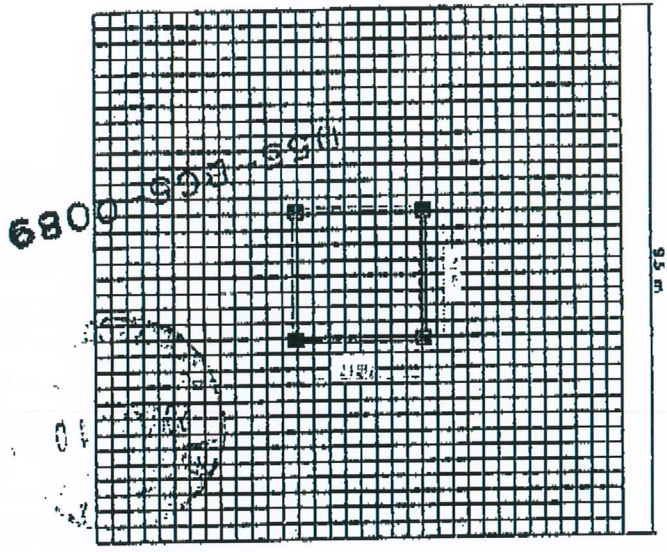
Anchoring details
Upper profiles



① D22 10EAX4 Corner = 40EA(SD40)



② D22 8EAX4 Corner = 32EA(SD40)



NO	REVISION	DATE	BY	REASON
1	FOUNDATION PLAN			
2				
3				
4				
5				

TITLE: FOUNDATION PLAN
 DWG: 930 CEG CEG K.P.O SCALE: PROJECTION
 DATE: 2014.03.25
 SK900